Training - Data Management and Data Science Final Project

DMDAPRJ-EN-P | **Face-to-face only** | **10 days**

This module consists in 10-day workshops and hands-on project to apply data management and data science concepts to E&P real-case data. The objective is to mimic usual situations in E&P companies that could involve data management and data science, and to create/develop models in E&P domains (seismic, geology...) to enhance decision-making processes in a short time Working on several workshops, the trainees have to solve issues like how to organize the E&P data acquired in a data room? How to assess data quality? Can Artificial Intelligence help? How would supervised or unsupervised AI helps for seismic interpretation?

Level

Awareness

Public

- O&G professionals who want to have a practical experience of data management and data analytics.
- This module is part of the IFP Training's Data Management and Data Science for E&P operations graduate certification

Objectives

Attendees will be able to implement the following skills:

- Explore a set of PDF documents
- Receive and evaluate external data to be used in a project
- Train a model to extract information from PDF documents
- Benchmark the created models
- Export the information
- Load a 3D seismic data set
- Apply a semi supervised model to detect horizons and faults
- Export the results

Pedagogical & technical resources

Interactive workshops and final project with presentation

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

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Program

WEEK 1

APPLIED DATA MANAGEMENT

Data reception.
Data Quality quantitative evaluation.

TEXT ANALYSIS: EXTRACTING INFORMATION FROM WELL REPORTS & LOGS

Selecting a training, a benchmarking and a blindtest data set.
Labelling the training set.
Building information detection models.
Benchmarking the models and defining a strategy to improve them.
Improving the models.
Blind testing.
Exporting the detected data.

WEEK 2

INTERPRETING A 3D SEISMIC CUBE USING A SEMI-SUPERVISED MODEL

Loading a SEGY file.
Automatic horizons interpretation.
Automatic faults interpretation.
Exporting faults and horizons.

FINAL PROJECT PRESENTATION

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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